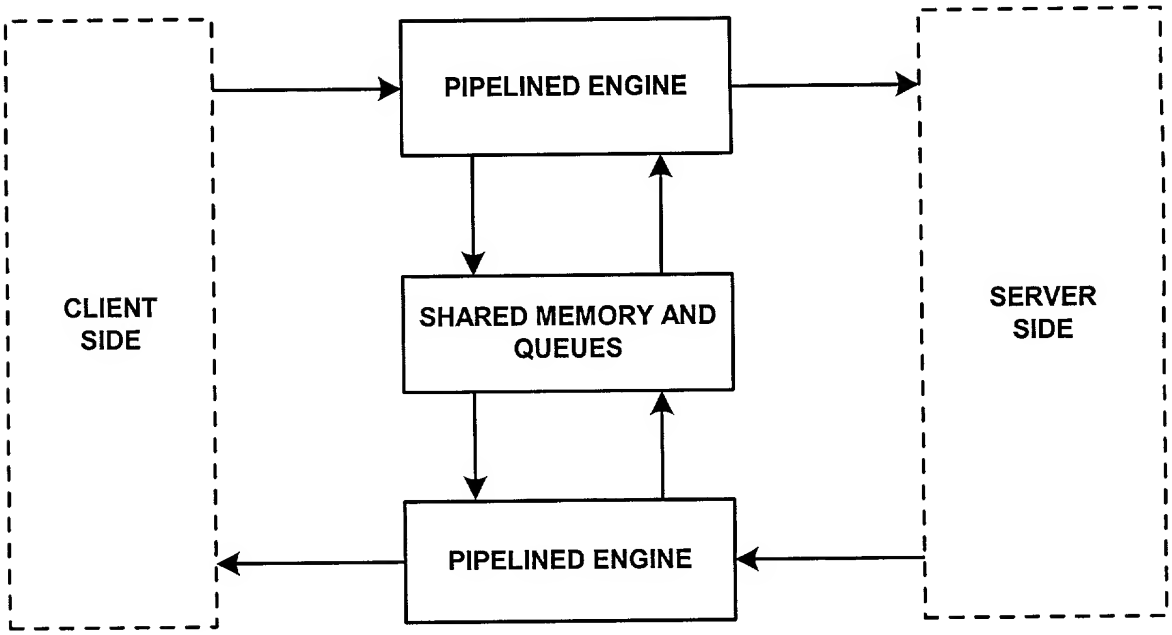
CLIENT SIDE
PIPELINED ENGINE
SHARED MEMORY AND QUEUES
PIPELINED ENGINE
SERVER SIDE

FIG. 1

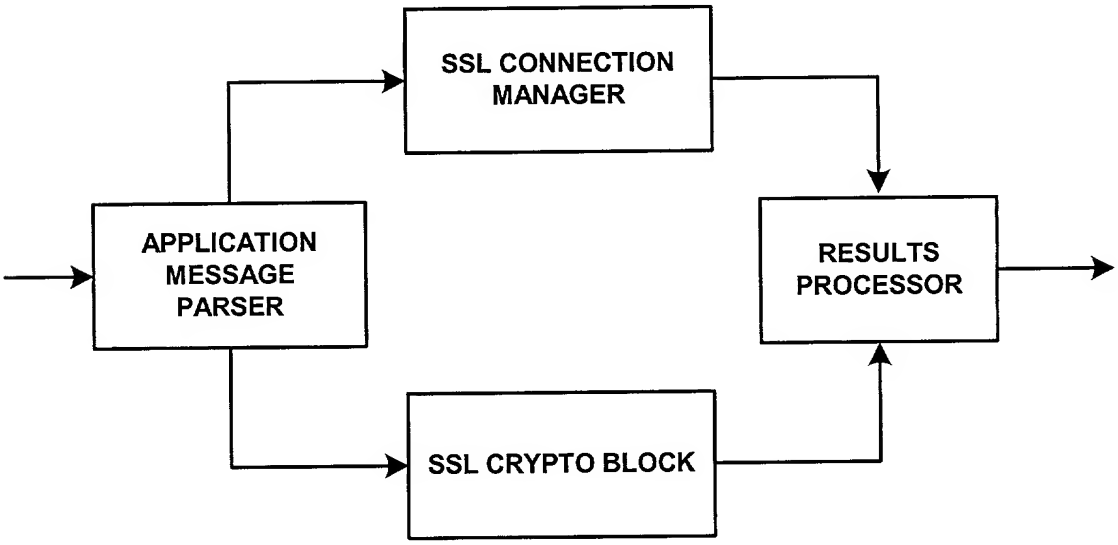
SSL CONNECTION MANAGER
APPLICATION MESSAGE PARSER
RESULTS PROCESSOR
SSL CRYPTO BLOCK

FIG. 4

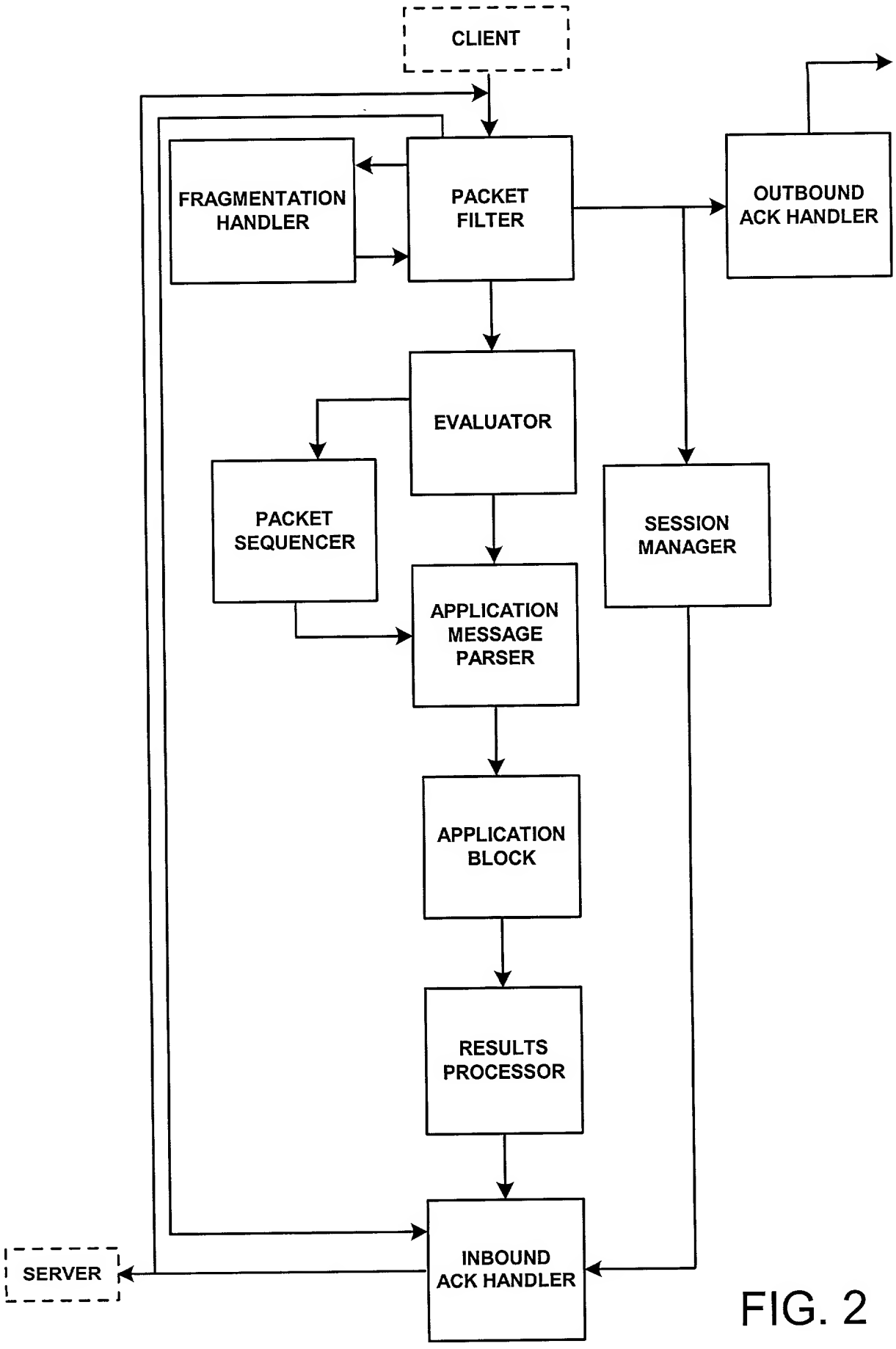
CLIENT
FRAGMENTATION HANDLER
PACKET FILTER
OUTBOUND ACK HANDLER
EVALUATOR
PACKET SEQUENCER
SESSION MANAGER
APPLICATION MESSAGE PARSER
APPLICATION BLOCK
RESULTS PROCESSOR
INBOUND ACK HANDLER
SERVER

FIG. 2

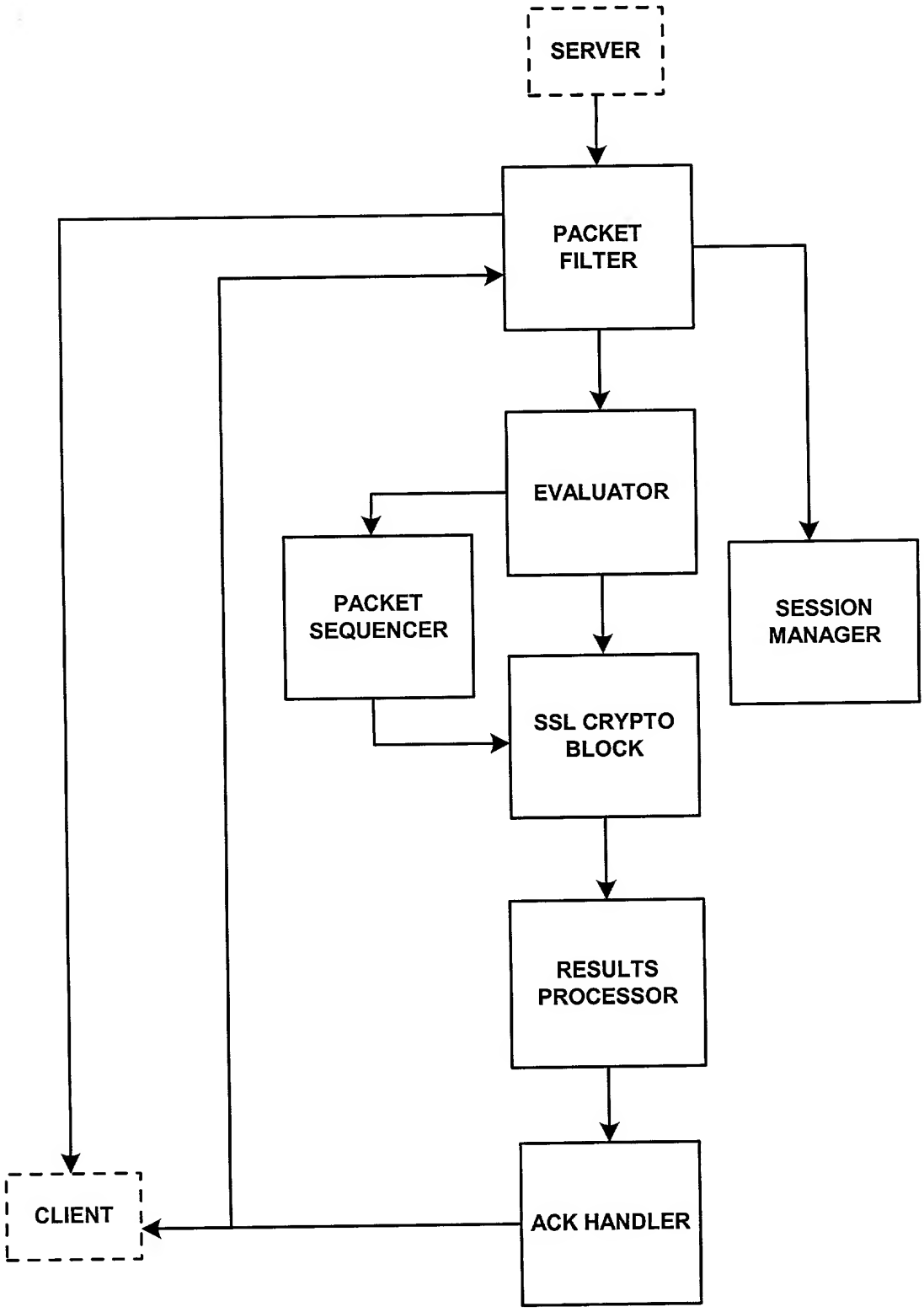
SERVER
PACKET FILTER
EVALUATOR
PACKET SEQUENCER
SESSION MANAGER
SSL CRYPTO BLOCK
RESULTS PROCESSOR
CLIENT
ACK HANDLER

FIG. 3

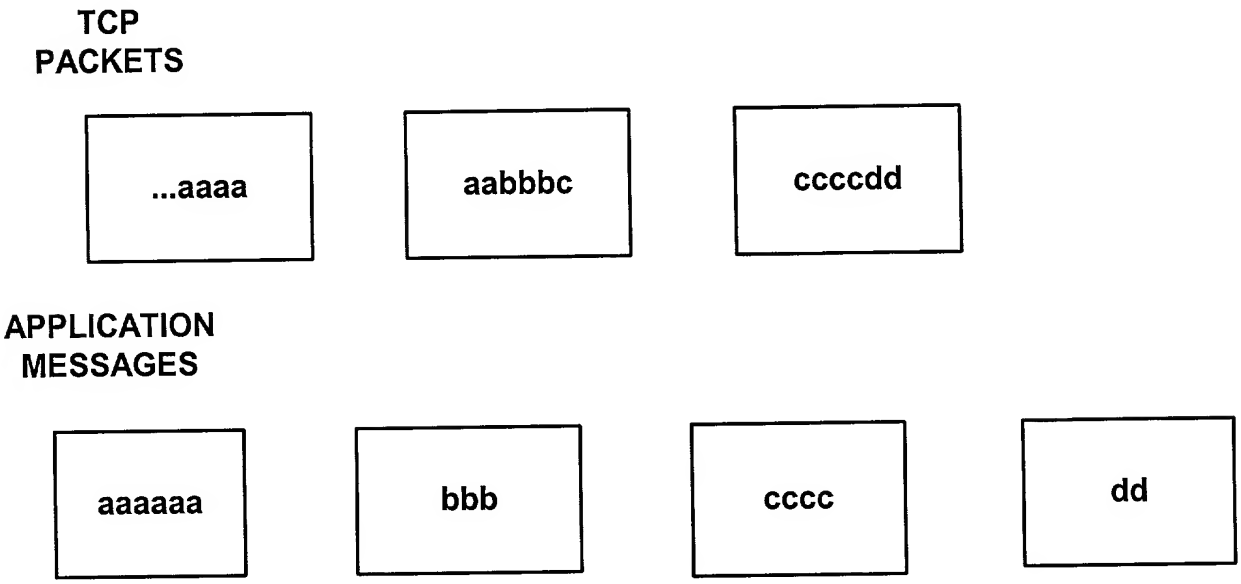
TCP PACKETS
...aaaa
aabbbc
ccccdd
APPLICATION MESSAGES
aaaaaa
bbb
cccc
dd

FIG. 5

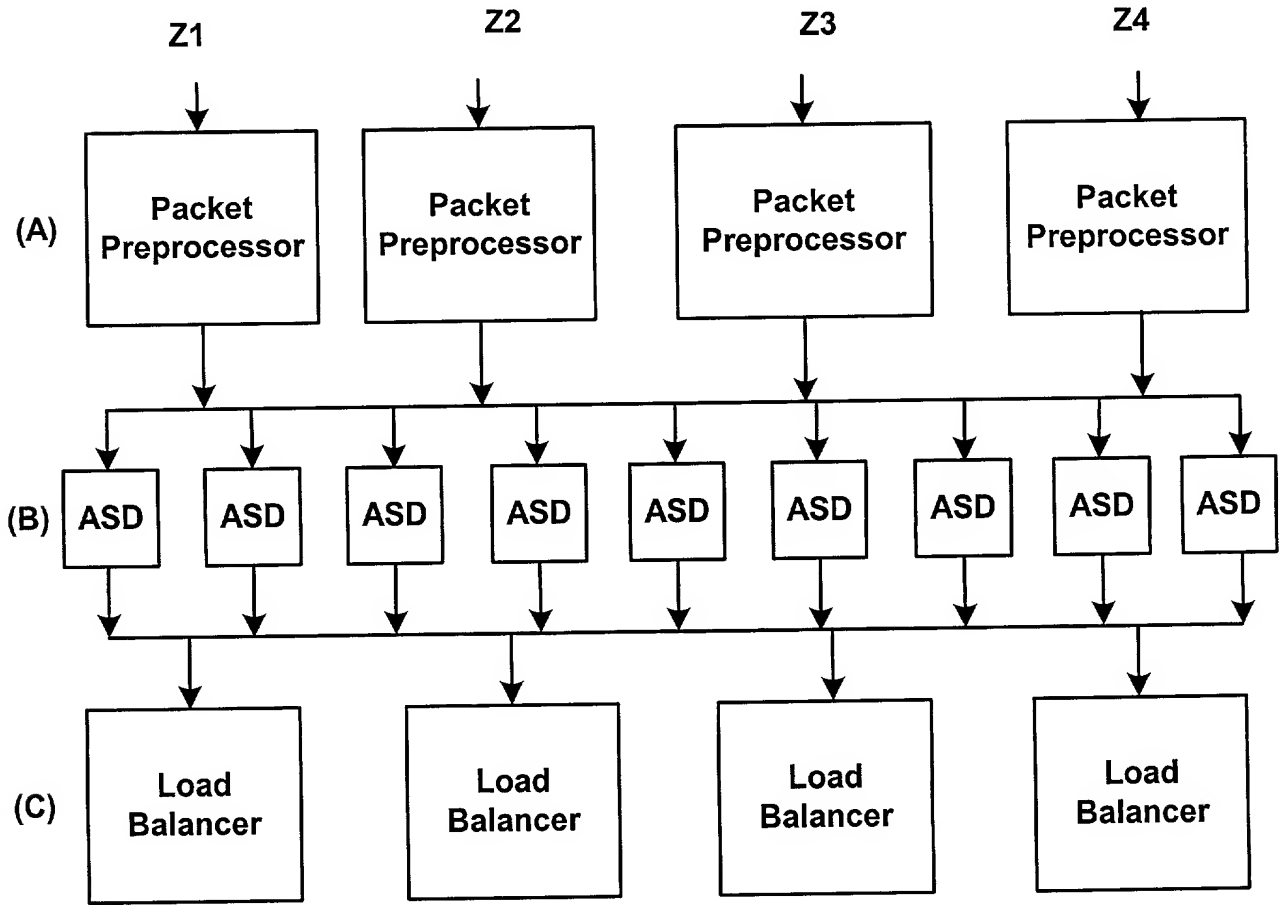
Z1
Z2
Z3
Z4
(A)
Packet Preprocessor
Packet Preprocessor
Packet Preprocessor
Packet Preprocessor
(B)
ASD
ASD
ASD
ASD
ASD
ASD
ASD
ASD
ASD
(C)
Load Balancer
Load Balancer
Load Balancer
Load Balancer

FIG. 6

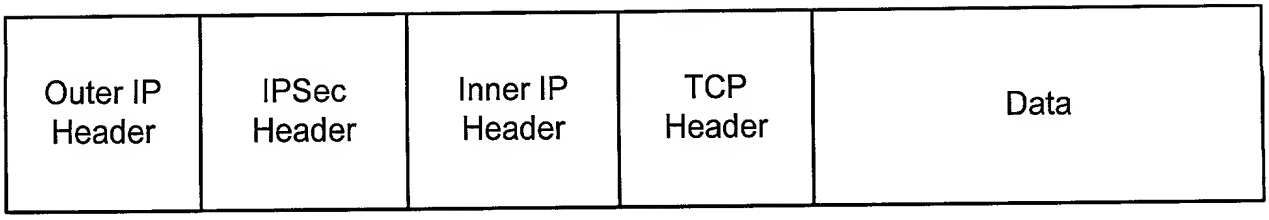

FIG. 7 (Prior Art)

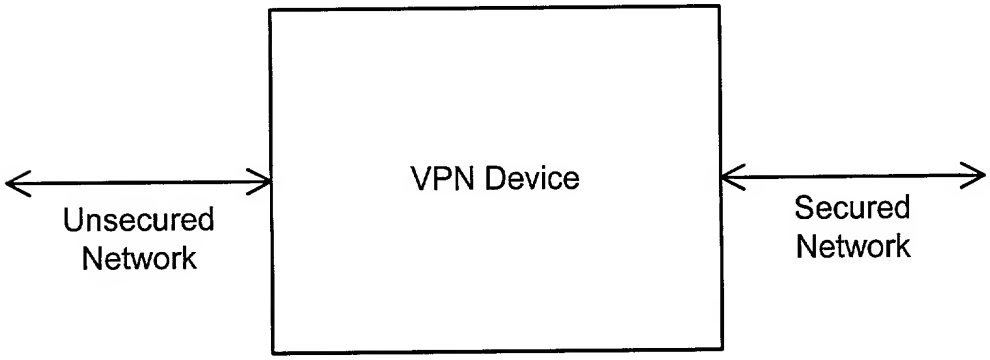

FIG. 8

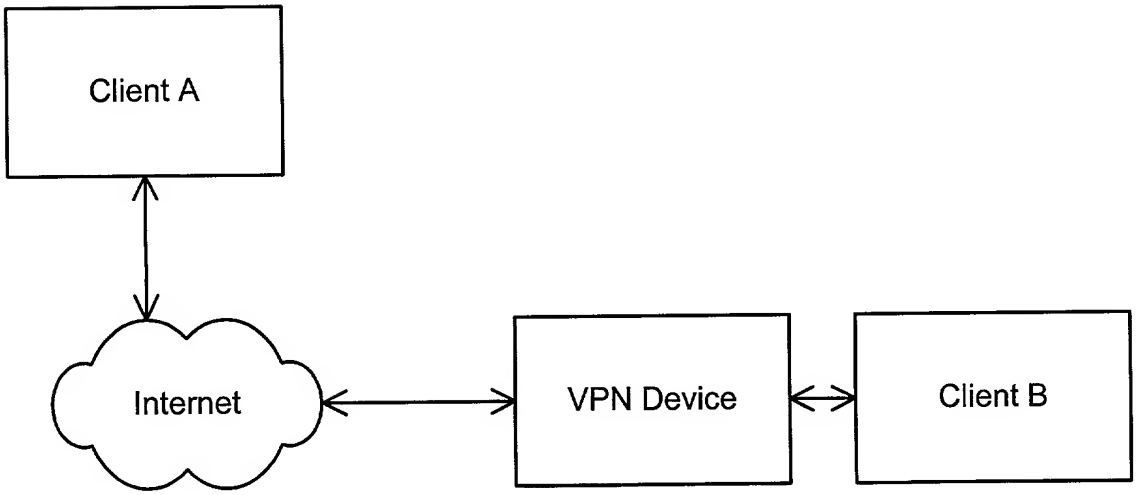

FIG. 9

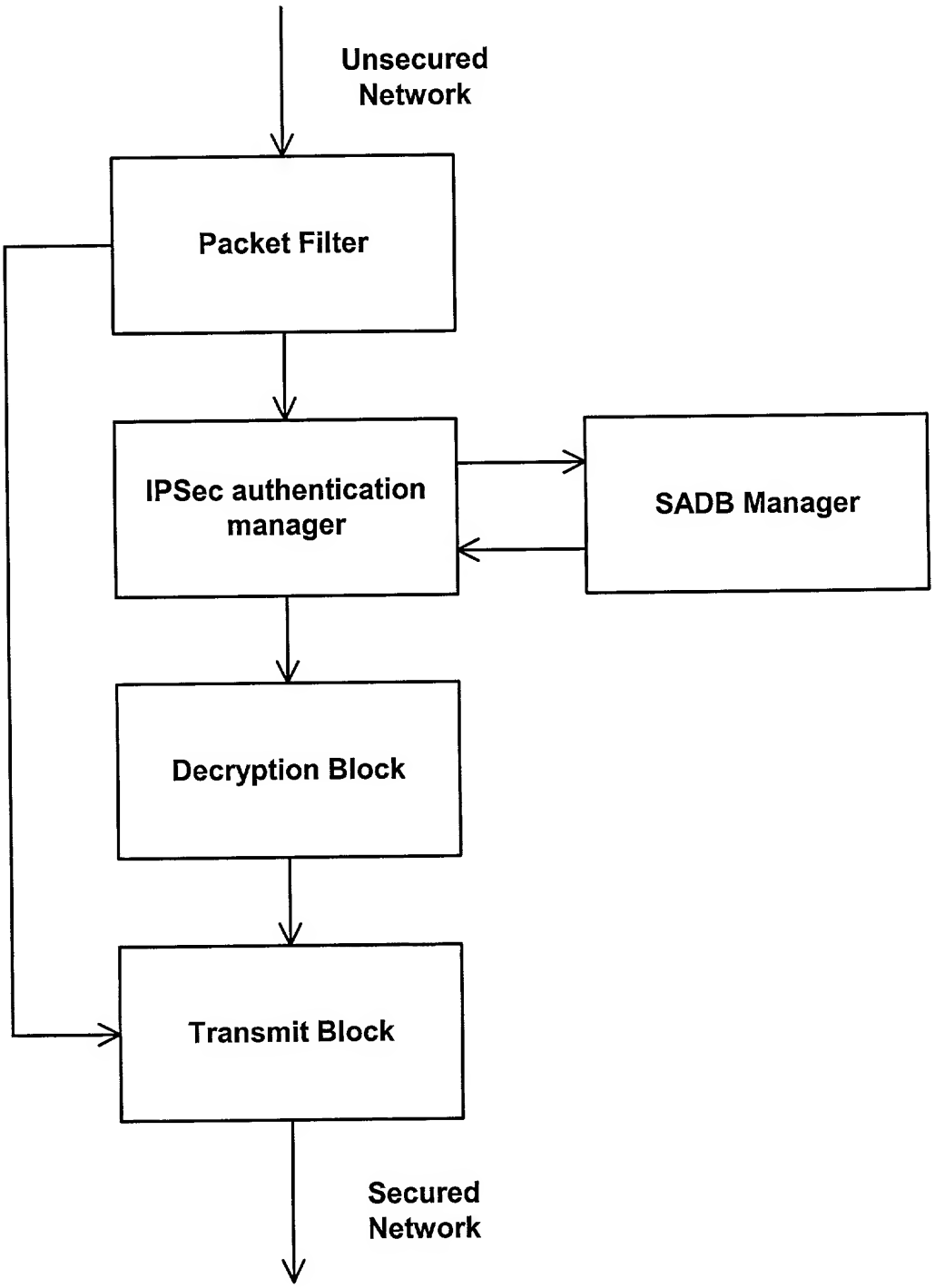
Unsecured Network
Packet Filter
IPSec authentication manager
SADB Manager
Decryption Block
Transmit Block
Secured Network

FIG. 10

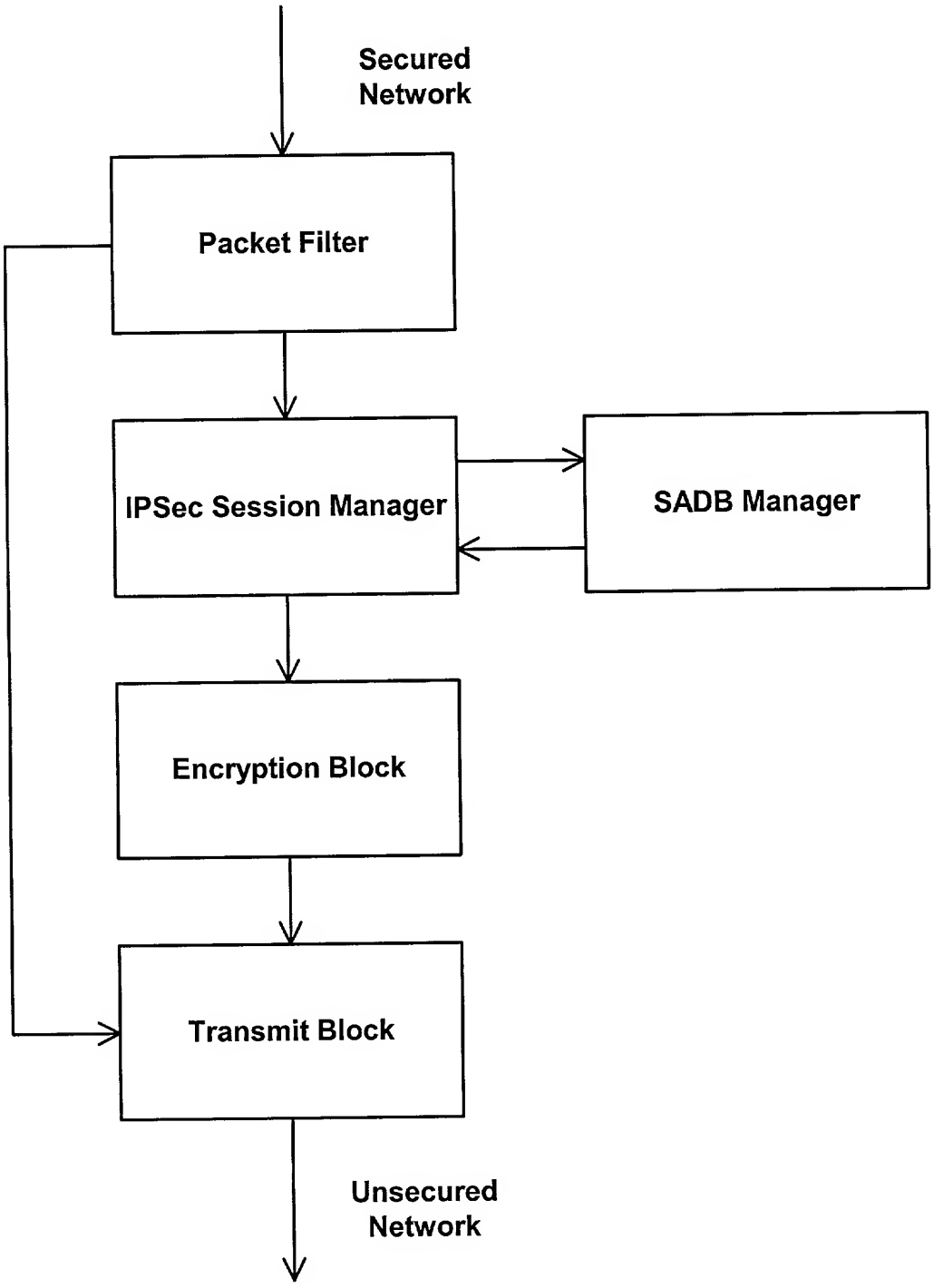
Secured Network
Packet Filter
IPSec Session Manager
SADB Manager
Encryption Block
Transmit Block
Unsecured Network

FIG. 11